

21. **Allowable Emissions:** The Permittee shall not allow emissions into the atmosphere in excess of any of the following:

	Daily Emission Limit	Twelve Month Rolling Average Emission Limit
Volatile Organic Compounds (VOCs)		

The twelve month rolling average shall be calculated at the end of each calendar month by summing the emissions over the most recent twelve calendar months.

22. **Monitoring;** The Permittee shall monitor the alcohol concentration of each fountain solution source (if used) containing any alcohol with a refractometer, a hydrometer or a conductivity meter. The instrument shall have a visual readout (analog or digital) with an accuracy of either  $\pm 2$  percent of the meter's full scale, or  $\pm 0.5$  percent absolute (such as for meter readings given in percent.)
23. **VOC Limitations:** The Permittee shall not apply any inks, or press applied varnishes, coatings, or adhesives unless the VOC content as applied is equal to or less than 2.5 pounds per gallon (300 grams per liter), less water and non-precursor organic compounds.
- A. **Lithographic Printing Only:** The Permittee may comply with the above provision by using an Emission Control System (ECS) with a control device efficiency which reduces the VOC emissions from the dryer exhaust vent by at least 90 percent by weight if the following additional two conditions are met: (1) The dryer pressure shall be maintained lower than the press room air pressure such that air flows into the dryer at all times when the press is operating, (2) has a differential pressure monitor with audible and visible alarm which annunciates whenever the pressure in the dryer equals or exceeds the pressure in the press room.
- B. **All Other Types of Non-Lithographic Printing:** The Permittee may comply with the above provision by using an ECS which reduces the VOC emissions from the dryer exhaust vent by at least 90 percent by weight, and an overall capture and control efficiency of at least 65 percent by weight.
- C. **Offset Lithographic Printing Only:**
1. **Fountain Solution VOC Limits:** After March 27, 1997, the Permittee shall limit the combined total volume of alcohol, alcohol substitute, and any other VOC in each fountain solution source to the limits in Rule 337 §302 column A of Table 1 whenever the press is on; except that a fountain solution source refrigerated below 60°F and having a properly indicating temperature monitor is subject to the limits in column B of Table I.

2. Cleaning Solutions: The Permittee shall use cleaning solutions with a vapor pressure at 20°C compliant with the standards in Rule 337 §303 Table 2.

24. **Operations & Maintenance:**

A. Should an Emission Control System be used to comply with the limits of Permit Condition 23, the Permittee shall install, maintain, and calibrate monitoring devices described in an Operations and Maintenance Plan (O&M). The monitoring devices shall measure temperatures, pressures, rates of flow, or other operating conditions necessary to determine if air pollution control equipment is functioning properly.

B. The Permittee shall provide the Department with an O&M Plan for an ECS system used to comply with Permit Condition 23a or 23b. This plan shall specify key system operating parameters, such as temperatures, pressures and/or flow rates, necessary to determine compliance with this rule, and describe in detail procedures to maintain the ECS. The Department's written approval of this plan and the implementation of this plan shall be required for compliance.

25. **Record Keeping:** The Permittee shall maintain the following lists and records in a consistent and complete manner:

A. Current List: A current list of inks, coatings, adhesives, thinners, cleaners, and any other VOC-containing materials used at the facility; state the VOC content of each in pounds per gallon or grams per liter

B. Additional Record Keeping Requirements for Offset Lithographic Printing:

1. Current List: A current list of fountain solutions, alcohol(s) and alcohol substitutes used at the facility; state the VOC content of each in pounds per gallon or grams per liter. In addition, for each blanket wash and other cleaning solutions, list the VOC vapor pressure at 20°C (68°F).

2. Weekly Entry of Monitoring Data If Any Alcohol Is Used:

- a) A weekly entry shall be made of the results of an instrument reading, required by permit condition 23.c.1, for each fountain solution source containing any alcohol; and

- b) Weekly, for each fountain solution source, record the names and the most current mixing ratio of all alcohol, alcohol-substitutes, and water used in making fountain solution in that source.

3. Monthly Entries for Presses Which Never Use Any Alcohol: Monthly, record the names of all alcohol-substitutes and the mixing ratio of all alcohol-substitutes to water, for each fountain solution source on a press which never uses alcohol.

C. Additional requirements for ECS operations:

1. Usage Records of Graphic Arts Materials and Cleaning Solutions: Daily, the Permittee shall update the records showing the type and amount of each graphic-arts ink, varnish, coating, adhesive, fountain solution, blanket wash, and all other cleaning solutions used on the press.

However, the Permittee may maintain monthly records of materials by

complying with Permit Condition 23 VOC limits or Permit Condition 23.c.2 vapor pressure limits, if each material served by a control device is identified as such.

2. For ECS Operation and Maintenance, the Permittee shall:
  - a) maintain a continuous record of the times an ECS is used to comply with these permit conditions, and
  - b) maintain daily records of the O&M Plan's key system operating parameters, and
  - c) maintain records of all maintenance performed according to the O&M Plan.

26. **Other:** Cover all VOC containing materials used for cleaning and cleanup, including rags and towels, when not in use. Store all VOC containing materials used for cleaning and clean up, including rags and towels in closed containers.